

Exercise 1 A population has 5000 people at time $t = 0$, where t is measured in years.

Exercise 1.1 If the population increases by 200 people by year, the population $P(t)$ after t years equals $P(t) = \boxed{5000 + 200t}$.

Exercise 1.2 If the population increases by 7% by year, the population $P(t)$ after t years equals $P(t) = \boxed{5000(1.07)^t}$.
